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FOR FIELD MAINTENANCE PRINT SET
REFER TO B-TC-DR11-W-1

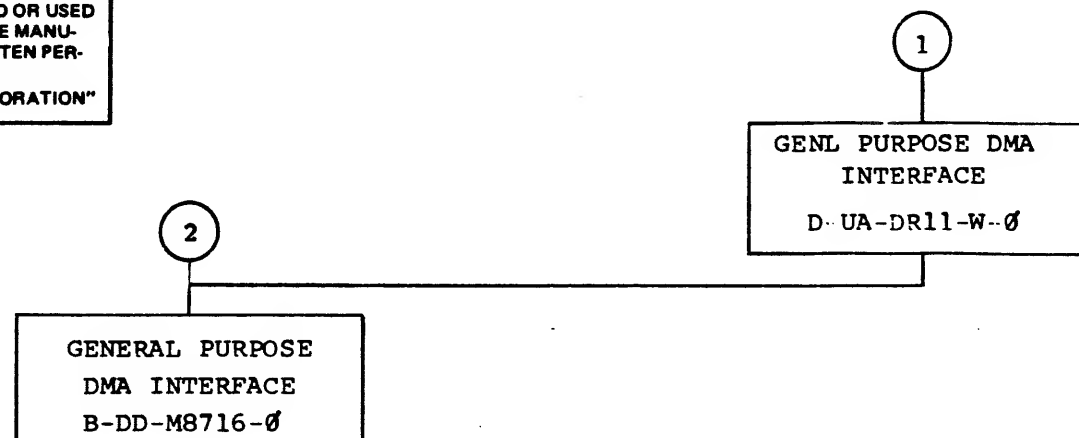
UNIT VARIATIONS

[illegible]

REVISIONS	REV.	
	CHANGE NO.	
	CHK	

USED ON OPTION/MODEL	DRN. Angela	DATE OCT 8-79	TITLE <div>digital</div>											
DR11-W	CHK'D. F. H. K...	DATE 9 OCT 79	GENERAL PURPOSE DMA INTERFACE											
	PROJ. ENG. M. J. ...	DATE 10-10-79	SIZE B	CODE DD	NUMBER DR11-W					REV				
	PROD. W. S. ...	DATE 11-27-79	DIST.											
SHEET 1 OF 3														

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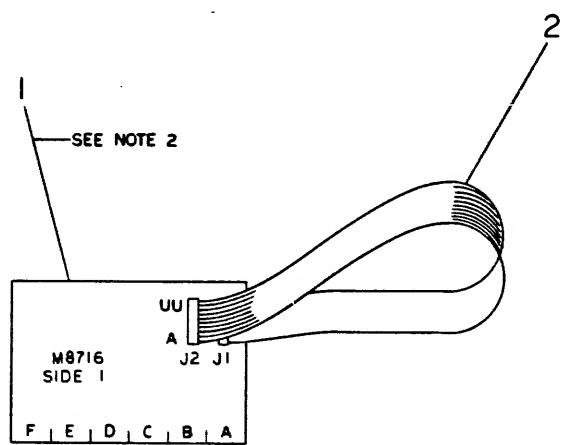
REV.	NUMBER	SIZE	CODE
	DR11-W	B	DD

TITLE		SIZE	CODE	NUMBER	REV
GENERAL PURPOSE DMA INTERFACE	SHEET 2 OF 3	B	DD	DR11-W	

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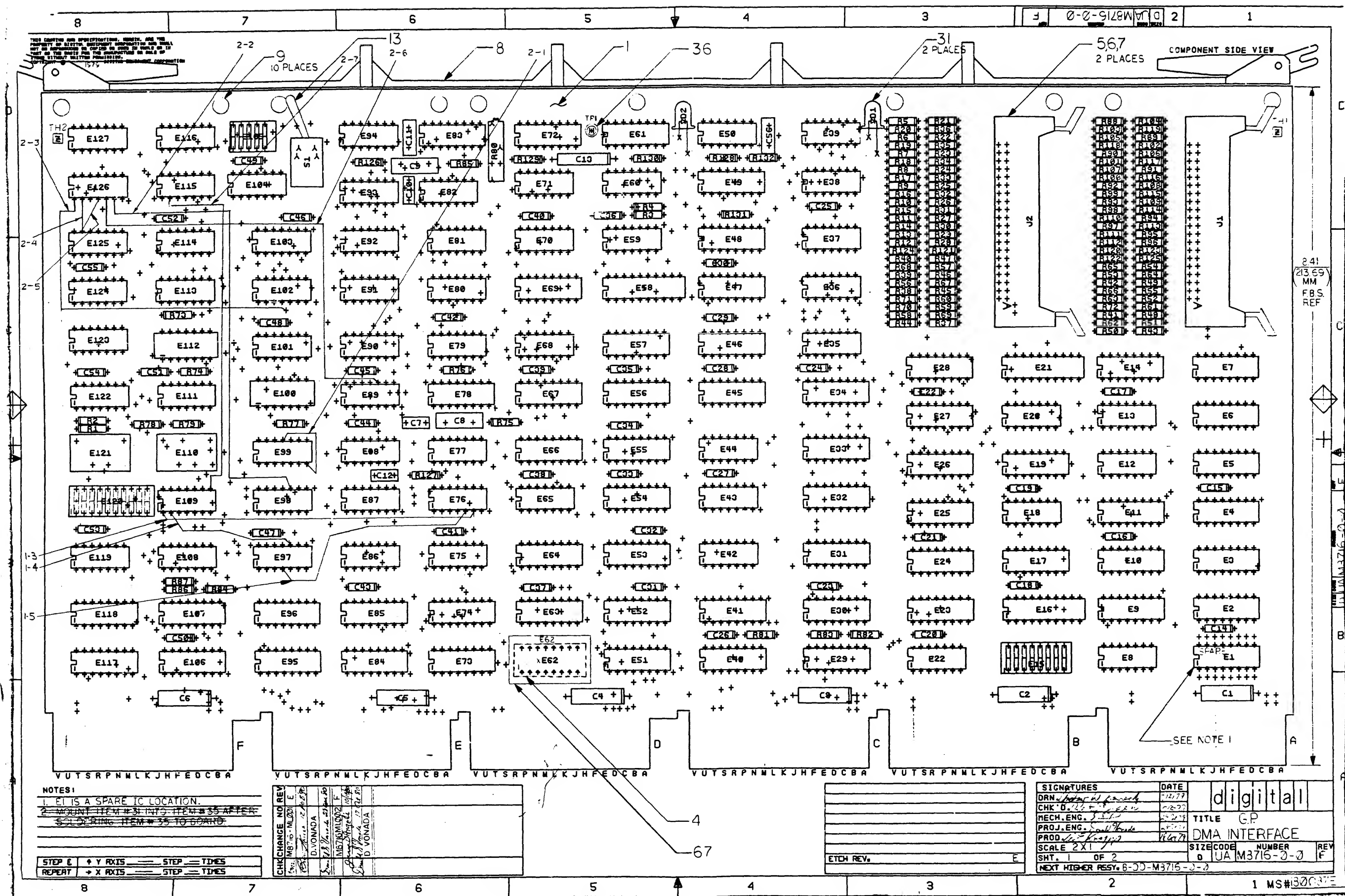
0-M 1180 2

- NOTES:
1. THE M8716 MODULE IS PLUGGED INTO ANY SPC SLOT THAT IS WIRED FOR ALL UNIBUS SIGNALS.
 2. THE NPR GRANT JUMPER (CAI TO CBI) MUST BE REMOVED BEFORE INSTALLING THE M8716 (ITEM 1). THIS JUMPER MUST BE REPLACED IF THE M8716 IS REMOVED FROM THE SYSTEM.



REF GENL PURPOSE DMA INTERFACE	D-AR-DR11-W-2	7
1 OUTER BOX	9906088-07	6
1 CORRUGATED SLEVE	9906089-07	5
1 DR11-W SHIPPING LIST	A-PL-DR11-W	4
1 MODULE BOX	9905816-00	3
1 BC05L CABLE, JUMPER	D-UA-BC05L-1C	2
1 GENL PURPOSE DMA INTERFACE	D-UA-M8716-0-0	1

QUANTITY & VARIATION	DESCRIPTION	QTY	DESCRIPTION	DWG/PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
	ANGLES 30° 30'		CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES	
	SURFACE QUALITY IN		CHECK ONE	0.005	0.010
			MEDIUM	0.010	0.015
			PREFERRED	0.015	0.020
				0.020	0.025
				0.025	0.030
				0.030	0.035
				0.035	0.040
				0.040	0.045
				0.045	0.050
				0.050	0.055
				0.055	0.060
				0.060	0.065
				0.065	0.070
				0.070	0.075
				0.075	0.080
				0.080	0.085
				0.085	0.090
				0.090	0.095
				0.095	0.100
				0.100	0.105
				0.105	0.110
				0.110	0.115
				0.115	0.120
				0.120	0.125
				0.125	0.130
				0.130	0.135
				0.135	0.140
				0.140	0.145
				0.145	0.150
				0.150	0.155
				0.155	0.160
				0.160	0.165
				0.165	0.170
				0.170	0.175
				0.175	0.180
				0.180	0.185
				0.185	0.190
				0.190	0.195
				0.195	0.200
				0.200	0.205
				0.205	0.210
				0.210	0.215
				0.215	0.220
				0.220	0.225
				0.225	0.230
				0.230	0.235
				0.235	0.240
				0.240	0.245
				0.245	0.250
				0.250	0.255
				0.255	0.260
				0.260	0.265
				0.265	0.270
				0.270	0.275
				0.275	0.280
				0.280	0.285
				0.285	0.290
				0.290	0.295
				0.295	0.300
				0.300	0.305
				0.305	0.310
				0.310	0.315
				0.315	0.320
				0.320	0.325
				0.325	0.330
				0.330	0.335
				0.335	0.340
				0.340	0.345
				0.345	0.350
				0.350	0.355
				0.355	0.360
				0.360	0.365
				0.365	0.370
				0.370	0.375
				0.375	0.380
				0.380	0.385
				0.385	0.390
				0.390	0.395
				0.395	0.400
				0.400	0.405
				0.405	0.410
				0.410	0.415
				0.415	0.420
				0.420	0.425
				0.425	0.430
				0.430	0.435
				0.435	0.440
				0.440	0.445
				0.445	0.450
				0.450	0.455
				0.455	0.460
				0.460	0.465
				0.465	0.470
				0.470	0.475
				0.475	0.480
				0.480	0.485
				0.485	0.490
				0.490	0.495
				0.495	0.500
				0.500	0.505
				0.505	0.510
				0.510	0.515
				0.515	0.520
				0.520	0.525
				0.525	0.530
				0.530	0.535
				0.535	0.540
				0.540	0.545
				0.545	0.550
				0.550	0.555
				0.555	0.560
				0.560	0.565
				0.565	0.570
				0.570	0.575
				0.575	0.580
				0.580	0.585
				0.585	0.590
				0.590	0.595
				0.595	0.600
				0.600	0.605
				0.605	0.610
				0.610	0.615
				0.615	0.620
				0.620	0.625
				0.625	0.630
				0.630	0.635
				0.635	0.640
				0.640	0.645
				0.645	0.650
				0.650	0.655
				0.655	0.660
				0.660	0.665
				0.665	0.670
				0.670	0.675
				0.675	0.680
				0.680	0.685
				0.685	0.690
				0.690	0.695
				0.695	0.700
				0.700	0.705
				0.705	0.710
				0.710	0.715
				0.715	0.720
				0.720	0.725
				0.725	0.730
				0.730	0.735
				0.735	0.740
				0.740	0.745
				0.745	0.750
				0.750	0.755
				0.755	0.760
				0.760	0.765
				0.765	0.770
				0.770	0.775
				0.775	0.780
				0.780	0.785
				0.785	0.790
				0.790	0.795
				0.795	0.800
				0.800	0.805
				0.805	0.810
				0.810	0.815
				0.815	0.820
				0.820	0.825
				0.825	0.830
				0.830	0.835
				0.835	0.840
				0.840	0.845
				0.845	0.850
				0.850	0.855
				0.855	0.860
				0.860	0.865
				0.865	0.870
				0.870	0.875
				0.875	0.880
				0.880	0.885
				0.885	0.890
				0.890	0.895
				0.895	0.900
				0.900	0.905
				0.905	0.910
				0.910	0.915
				0.915	0.920
				0.920	0.925
				0.925	0.930
				0.930	0.935
				0.935	0.940
				0.940	0.945
				0.945	0.950
				0.950	0.955
				0.955	0.960
				0.960	0.965
				0.965	0.970
				0.970	0.975
				0.975	0.980
				0.980	0.985
				0.985	0.990
				0.990	0.995
				0.995	1.000
				1.000	1.005
				1.005	1.010
				1.010	1.015
				1.015	1.020
				1.020	1.025
				1.025	1.030
				1.030	1.035
				1.035	1.040
				1.040	1.045
				1.045	1.050
				1.050	1.055
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				1.090	1.095
				1.095	1.100
				1.100	1.105
				1.105	1.110
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				1.390	1.395
				1.395	1.400
				1.400	1.405
				1.405	1.410
				1.410	1.415
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				1.430	1.435
				1.435	1.440

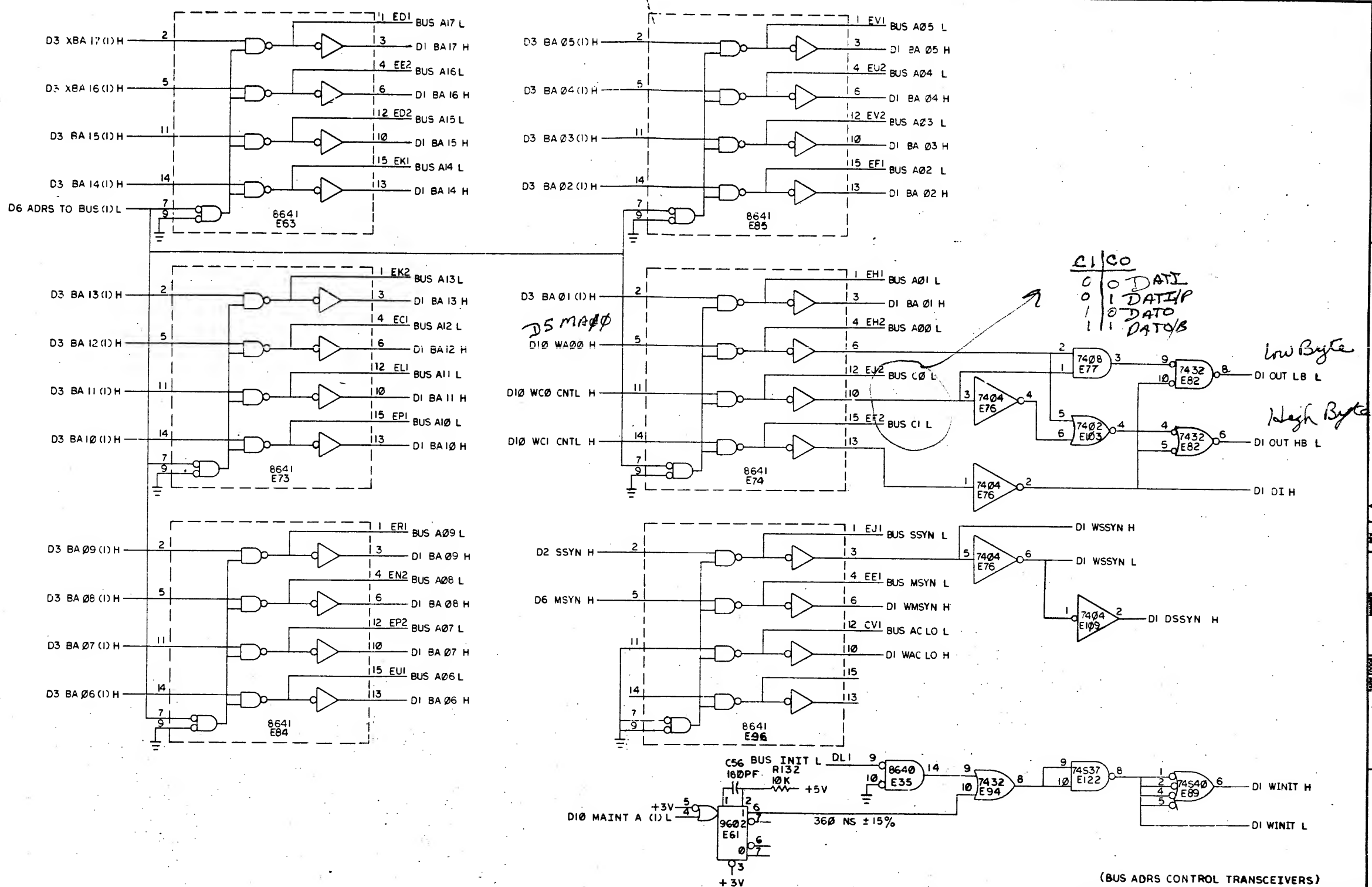


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2-3 REFER TO D-EC-5013369-0-0

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(BUS ADDR CONTROL TRANSCEIVERS)			
DRN: R. H. H. 5-10-78	FIRST USED ON	DR11-W	digital
CHKD: H. H. H. 5-10-78	TITLE	G. P. DMA INTERFACE (CU)	
ENG: H. H. H. 5-10-78	PROJ. ENGR:	27-081	
PROD. ENGR: H. H. H. 5-10-78	NEXT HIGHER ASSY.		
B-DD-M8716-0	SIZE CODE	NUMBER	REV.
SCALE: 1/1	D CS	M8716-0-1	F
SHEET 1 OF 14	DIST.		

REV.	CHG.	DATE	BY
1		5/10/78	H. H. H.
2		5/10/78	H. H. H.
3		5/10/78	H. H. H.
4		5/10/78	H. H. H.
5		5/10/78	H. H. H.
6		5/10/78	H. H. H.
7		5/10/78	H. H. H.
8		5/10/78	H. H. H.

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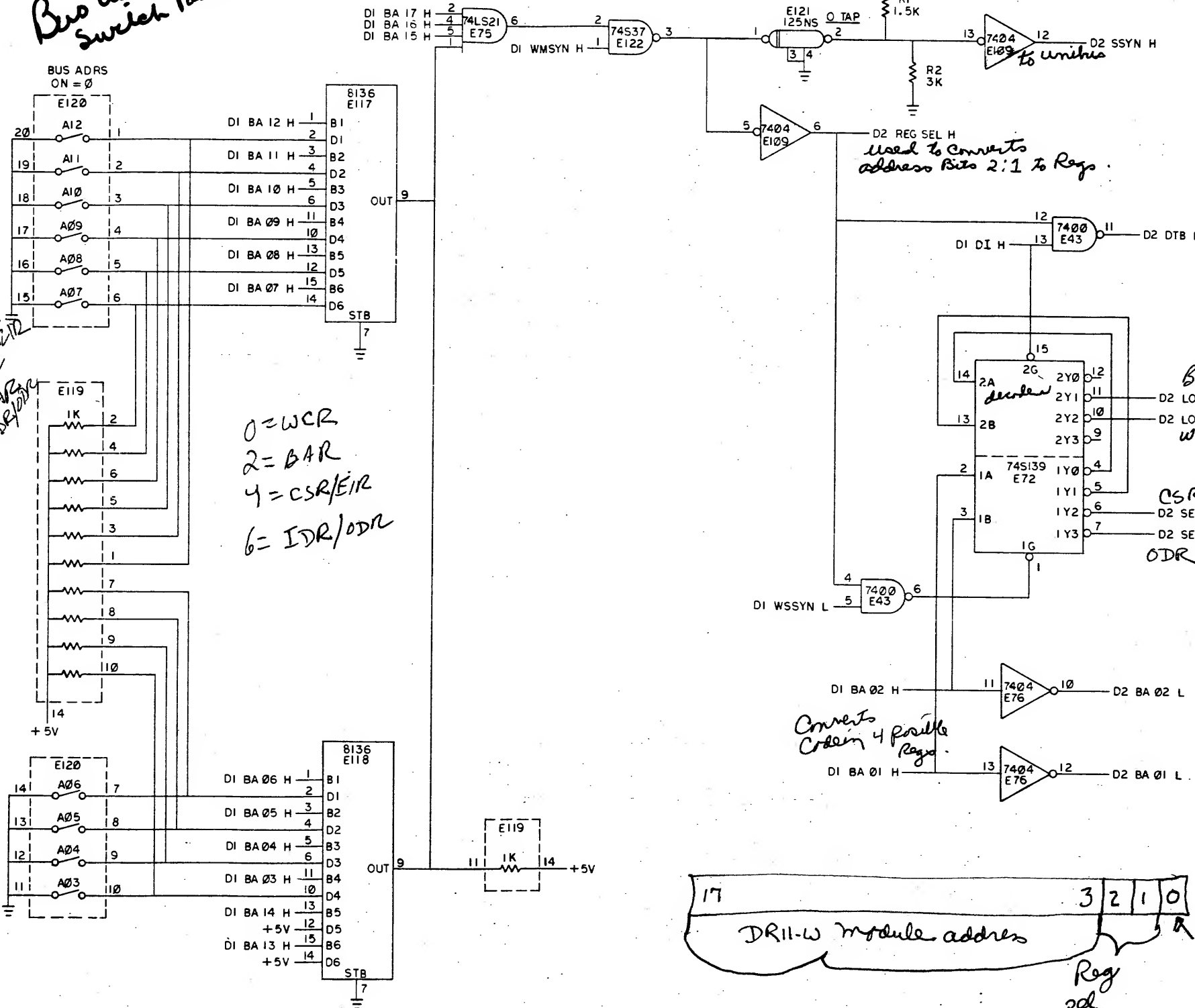
Bus Address Switch Pack.

on = 0
off = 1

using Bus
address 12:03
define CSR/EIR
BAR
IDR/ODR

0 = WCR
2 = BAR
4 = CSR/EIR
6 = IDR/ODR

DR11-W Module #1
77241X
Module #2
77243X
Module #3
77245X
Module #4
77247X

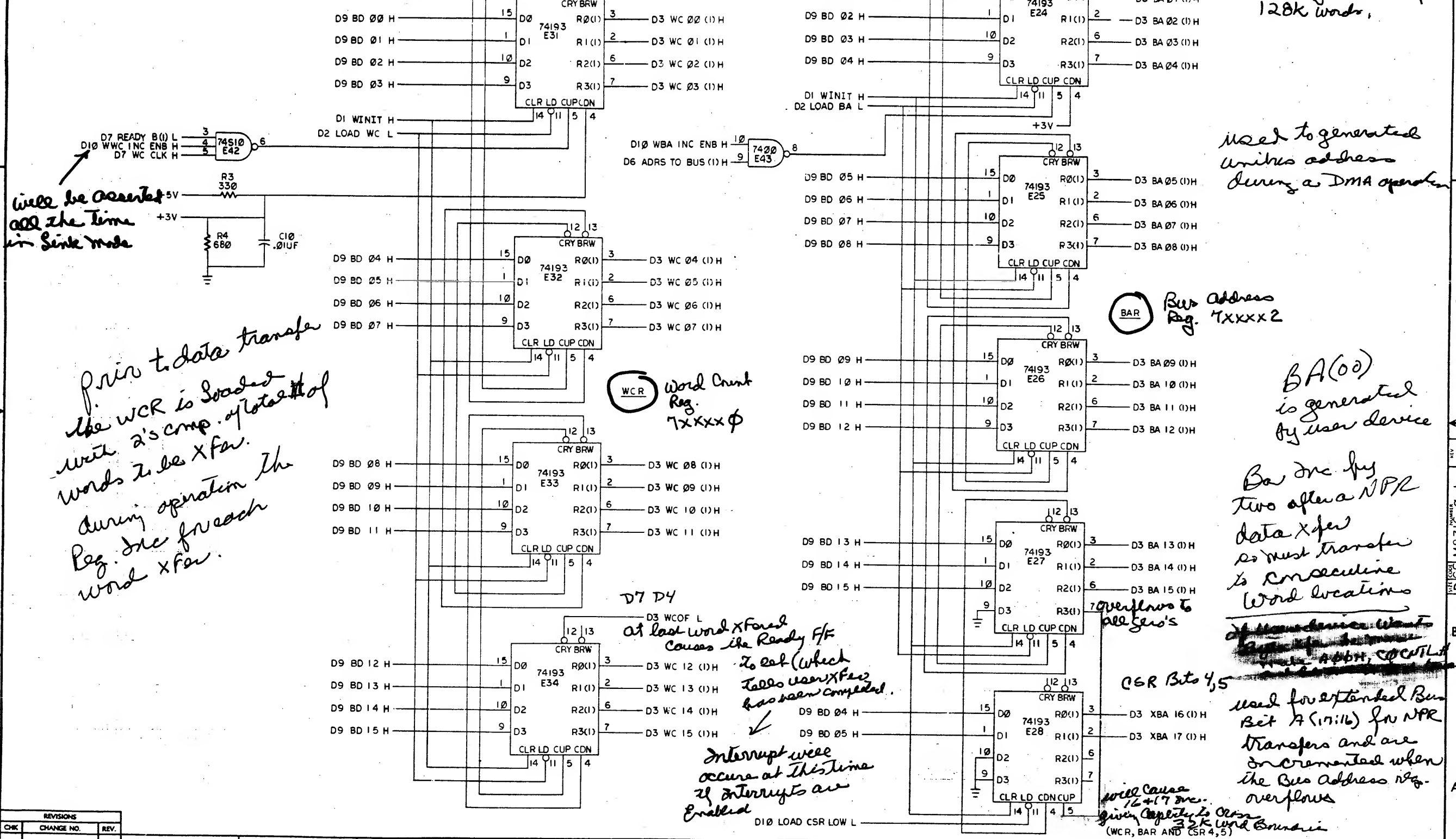


17 3 2 1 0
DR11-W module address
Byte select

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	G. P. DMA INTERFACE (D2)	SIZE/CODE	NUMBER	REV.
SCALE	+	SHEET	2 OF 14	F

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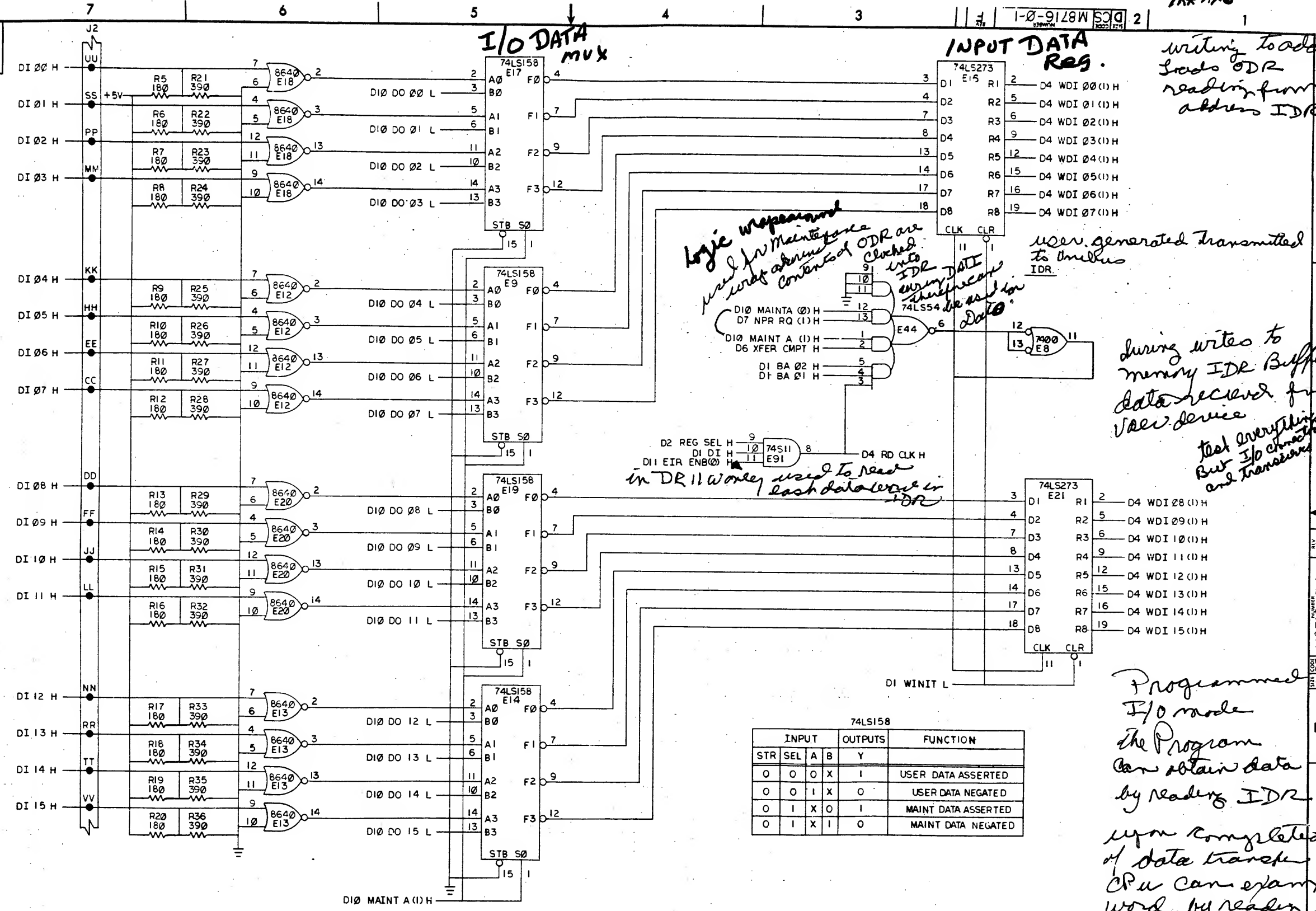


REVISIONS		
CHK	CHANGE NO.	REV.

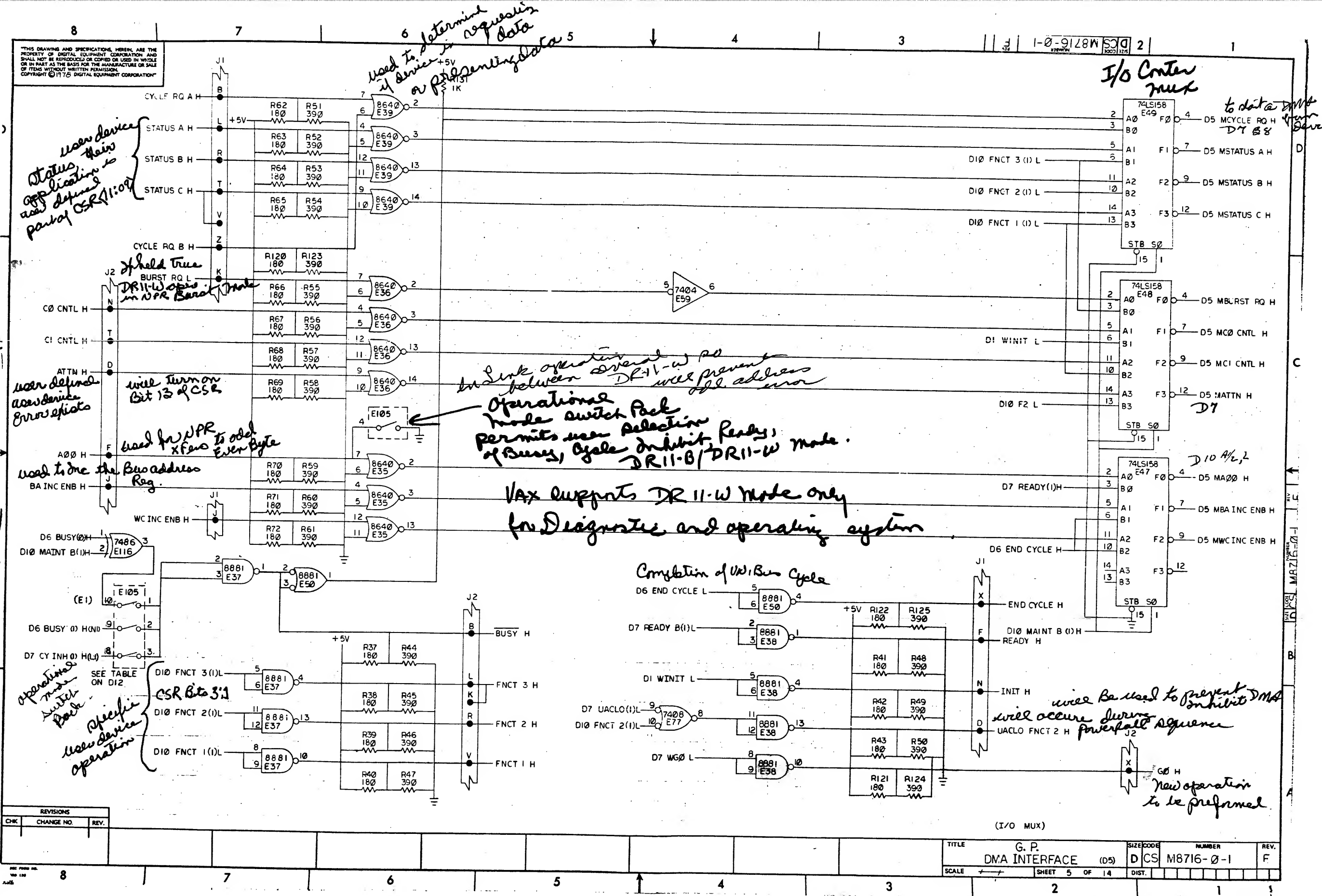
TITLE		SIZE CODE	NUMBER	REV.
G. P. DMA INTERFACE (D3)		DCS	M8716-0-1	F
SCALE		SHEET	3 OF 14	DIST.

Input/output data reg same address 7X6

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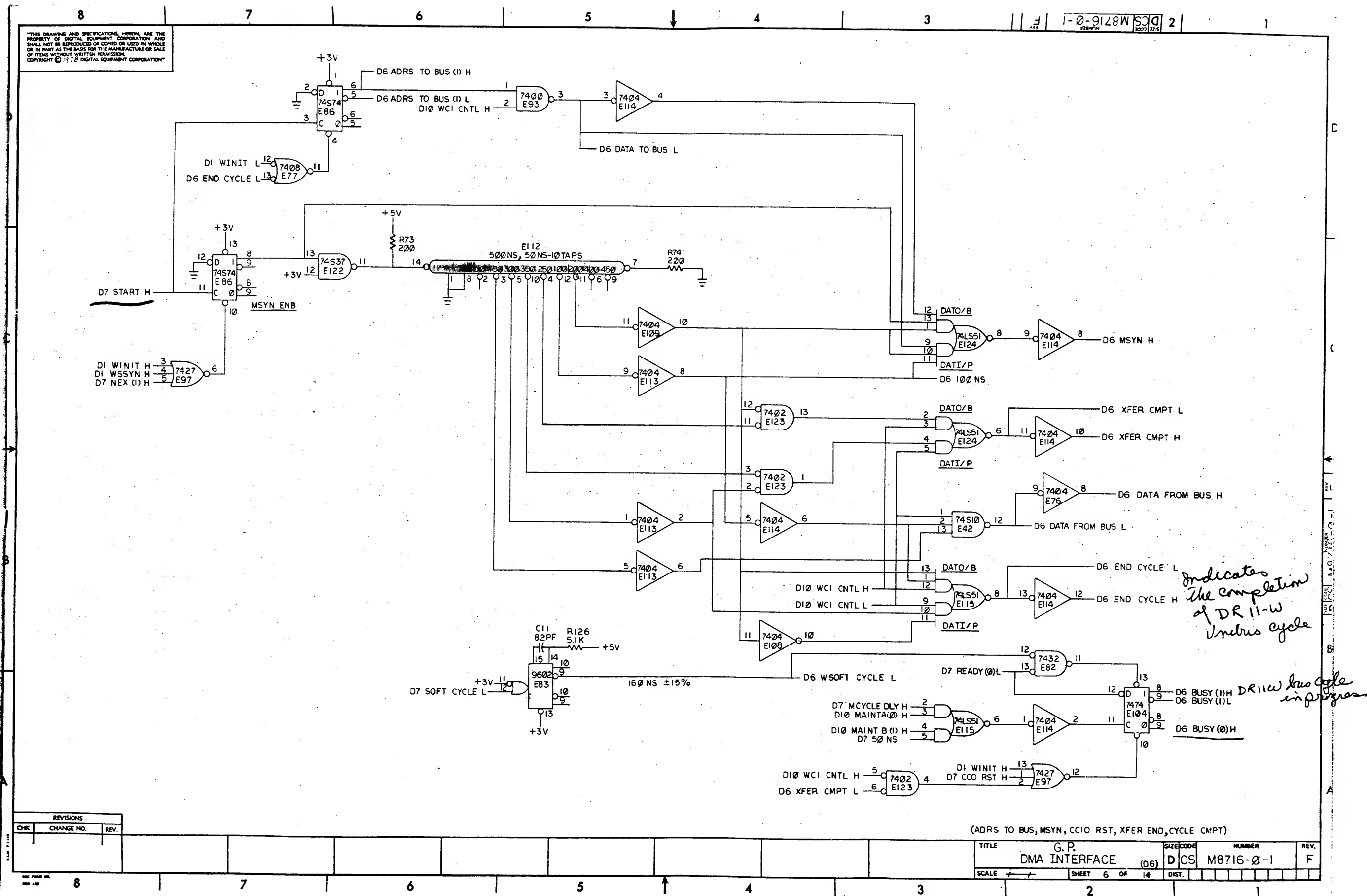


REVISIONS		
CHK	CHANGE NO.	REV.



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
G. P. DMA INTERFACE (D5)		D	CS	M8716-0-1	F
SCALE		SHEET 5 OF 14		DIST.	



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AC low true on
one computer level
Xmit to all DR11-W
on bus

200 nsec + pulse

On when User Device
Generates a Attention signal
or input cable is disconnected

Burst data
data transfer
4-40 nsec

For Vax
to handle 3rd
vector interrupt
20 nsec

Bus time out
184 nsec, nominal

new operation to be
performed

write a 0 Bit 15
CSR in Read

write a 1
EIR in Read
Bit 15 is always
a 1

Bit 14
Non Error
memory

REVISIONS		
CHK	CHANGE NO.	REV.

(CSR 0,7,8,13,14 AND 15 AND CONTROL LOGIC)		TITLE	SIZE CODE	NUMBER	REV.
G. P.		DMA INTERFACE (D7)	D.CS	M8716-0-1	F
SCALE		SHEET 7 OF 14	DIST.		

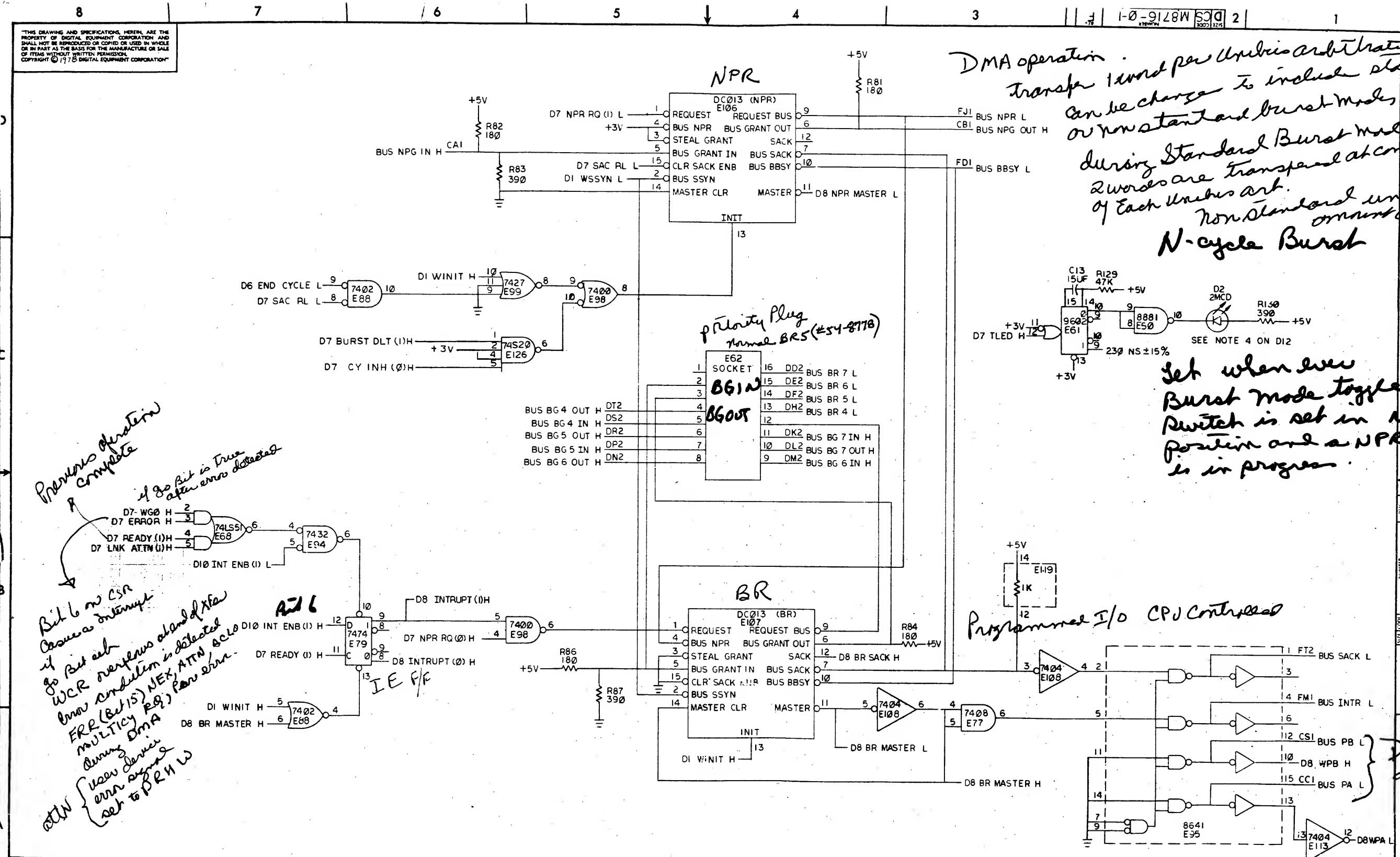
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DMA operation
 Transfer 1 word per address arbitrated
 can be changed to include standard or non standard burst modes.
 during Standard Burst mode 2 words are transferred at completion of each address arb.
 Non standard unlimited amount of words.
N-cycle Burst

Set when ever Burst mode toggle switch is set in N-cycle position and a NPR is in progress.

Previous operation complete
 if 80 bit is true after error detected

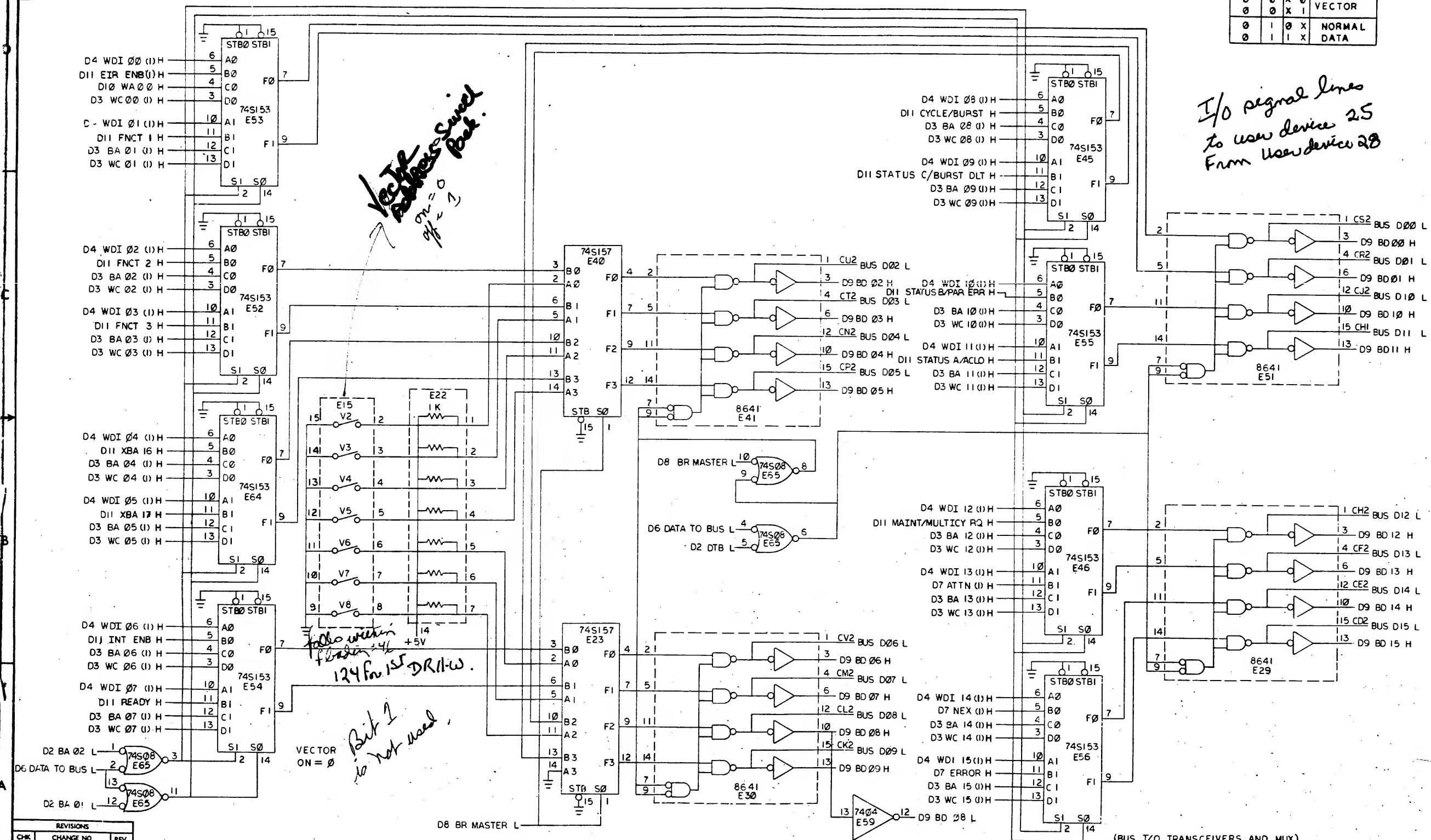
*Bit 6 on CSR causes interrupt if bit 6 is 1
 WCR overflow is detected
 Error condition is detected
 ERR (Bit 15) NEX, ATTN, 80 bit
 MULTICY RQ, Par error
 during DMA
 user device error signal
 set to PRH W*



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STB	S0	B	A	F	OUTPUT
0	0	X	0		VECTOR
0	0	X	1		
0	1	0	X		NORMAL DATA
0	1	1	X		

I/O signal lines
to user device 25
From user device 28



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		G. P. DMA INTERFACE (09)		SIZE CODE	NUMBER		REV.
SCALE		SHEET 9 OF 14		DIST.	DCS M8716-0-1		F

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DATA ADDRESS
DO NOT
OUTPUT
DATA
REG

Can only be
written to
not read from

used for NPR
transfers
when DR14
reads from
memory

gives capability
of addressing
CBR in
Byte Address

CSR (3:1)
user defined
Tell what
he wants
to do thru
DR11-W

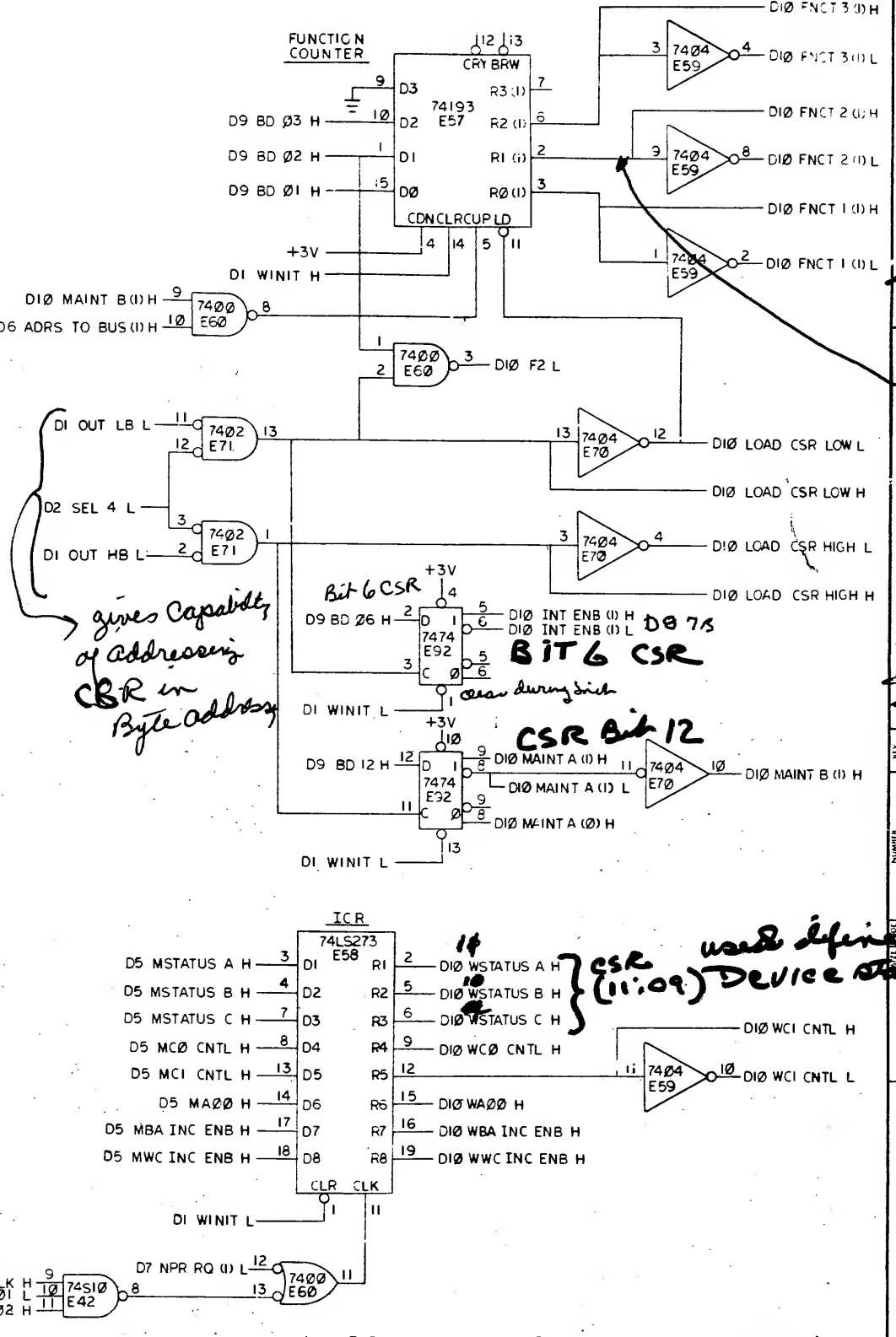
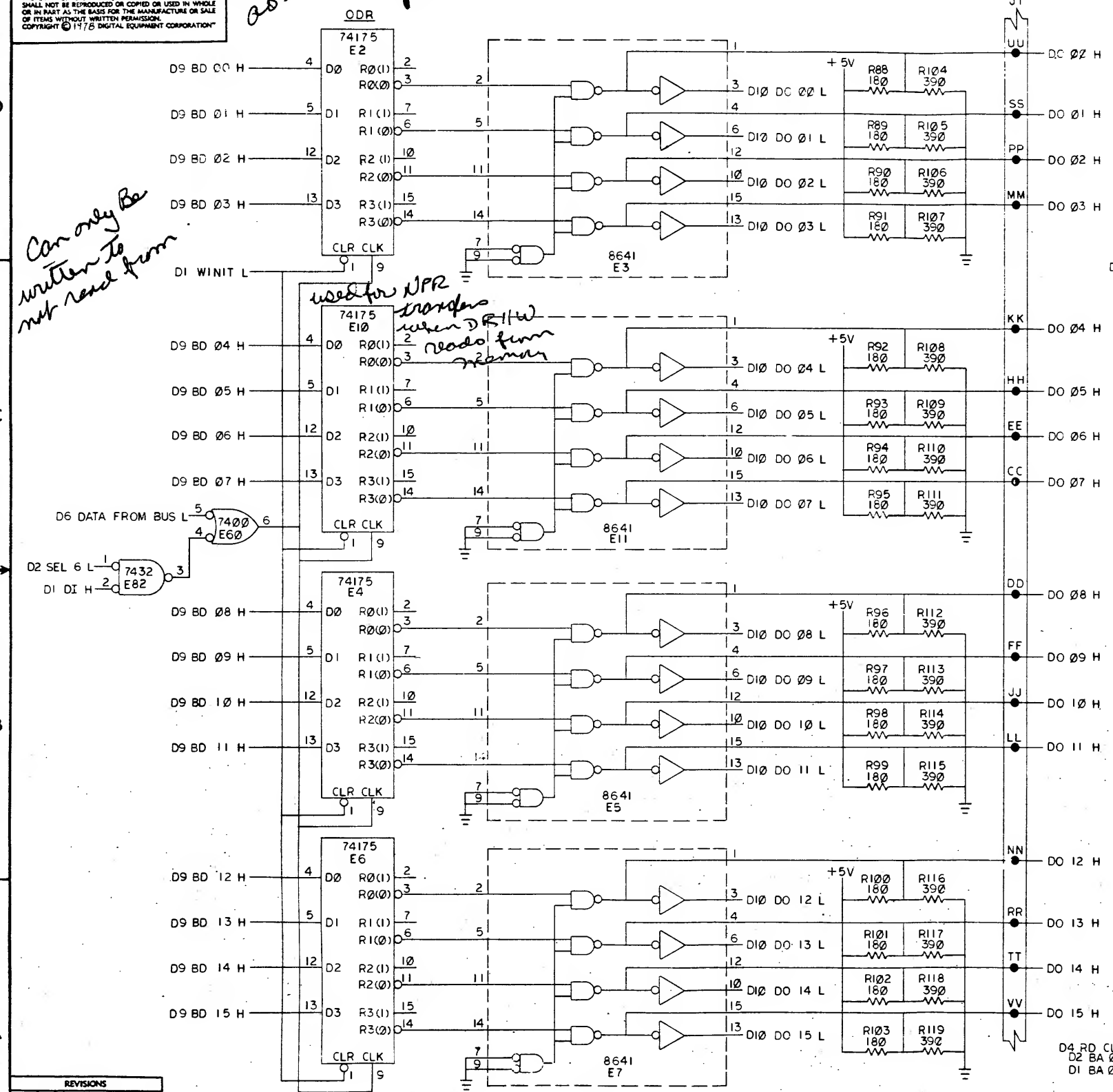
setting CSR bit 2
in X-mitting DR11-W
sets both CSR bit 10
and CSR bit 13
in Receiving DR11-W
Bit 13 atten.
when set will
set Bit 15 Error
which will generate
an interrupt if
Bit 6 Interrupt
Enable Bit is
set.

CSR used define
(11:09) Device Status Bits

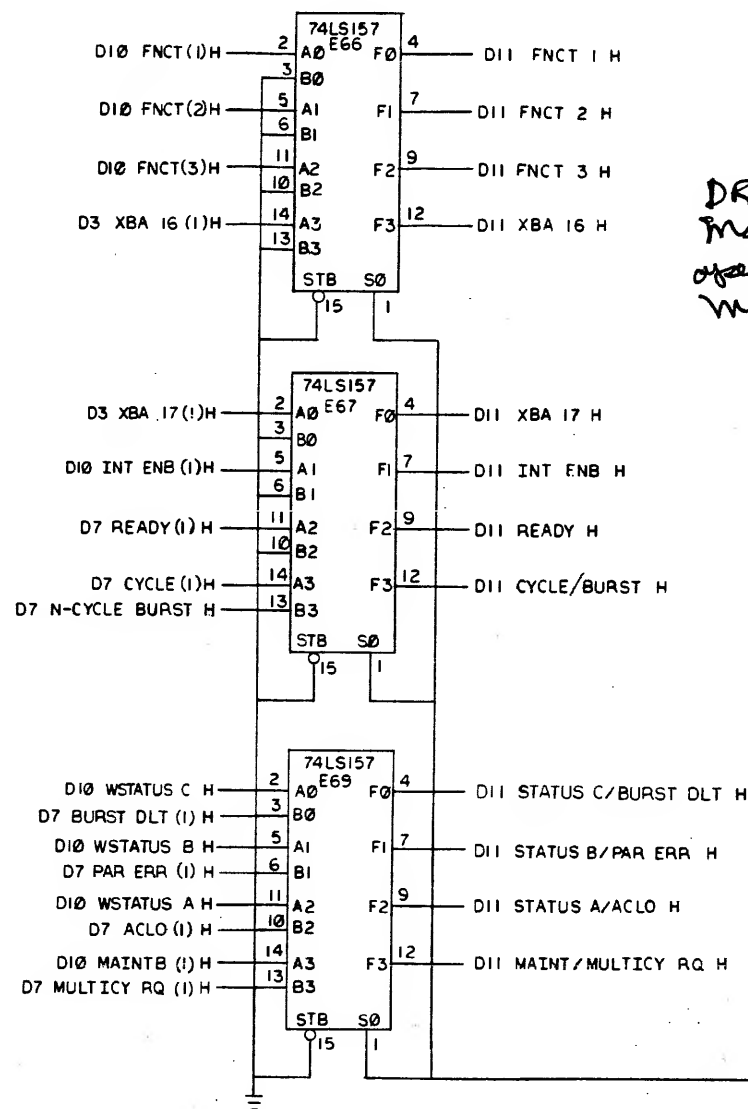
REVISIONS		
CHK	CHANGE NO.	REV.

(CDR, ICR, FUNCTION COUNTER AND CSR 1,2,3,6,9,10,11 AND 12)

TITLE		G. P.		SIZE/COO		NUMBER		REV.	
DMA INTERFACE (D10)				DCS		M8716-0-1		7	
SCALE		++		SHEET 10 OF 14		DIST.			



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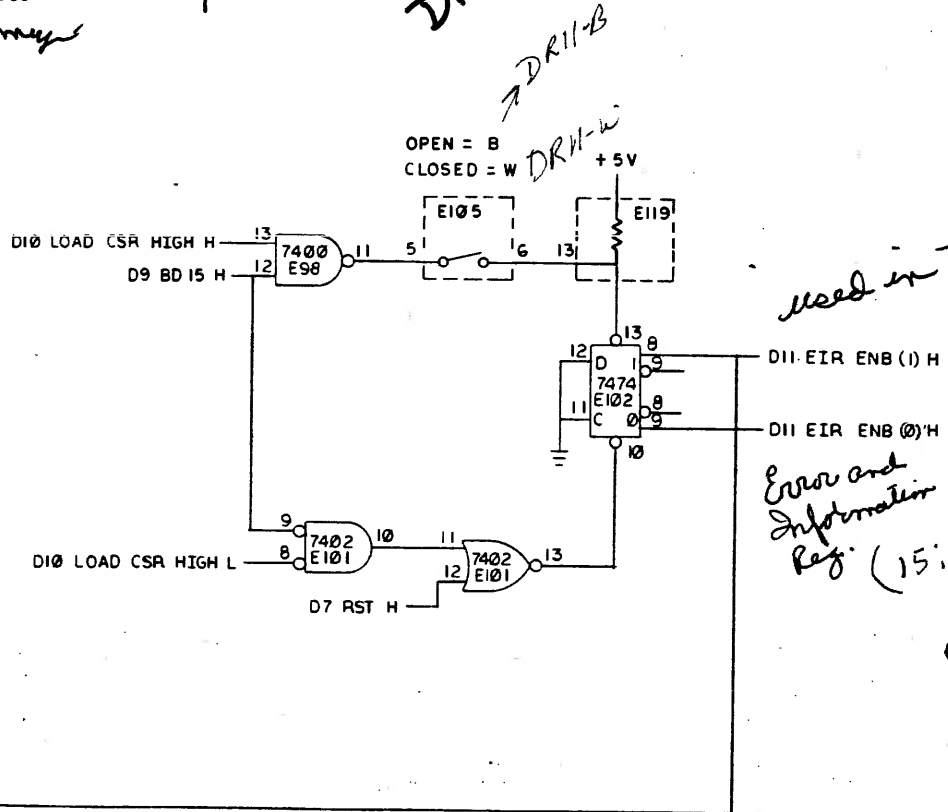


DR11-W become Bus Master via NPR operates directly with Memory

Programmed data I/O DMA Block (1 cycle, 2 cycle or N cycles per bus grant)

DR11-B mode
DR11-W mode & Vop only

DR11-W More Error conditions monitoring



used in DR11-W only

Error and Information Reg. (15:13) feed for immediate access come as CSR (15:13)

REVISIONS		
CHK	CHANGE NO.	REV.

DEC FORM NO. 080 128

TITLE	G.P. DMA INTERFACE (D10)	SIZE CODE	NUMBER	REV.
SCALE	11 OF 14	DIST.	DCS M8716-0-1	E

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NOTES:

1. ALL RESISTORS ARE 1/4W, 5% UNLESS OTHERWISE SPECIFIED.
2. THE BURST DLT TIME OUT IS USED FOR NPR BURST MODE ONLY AND MAY BE ADJUSTED BETWEEN 3 AND 30 μ S TO ACCOMMODATE INPUT DATA RATE. IT IS TYPICALLY ADJUSTED TO 10 μ S TO RUN WITH MOST PDP-11 FAMILY OF PROCESSORS.
3. THE BUS TIME OUT MAY BE CONFIGURED FOR UNIBUS-11, UBA OF VAX AND 11/74. FOR UNIBUS-11 TIME OUT C8 MUST BE CUT. FOR UBA OF VAX AND 11/74, BOTH C7 AND C8 MUST BE INSTALLED.
4. THE LED IS LIT WHEN PULSED BY ONE-SHOT. THE ONE SHOT IS TRIGGERED WHEN BI IS IN N-CYCLE POSITION, BURST RQ IS ASSERTED AND AN NPR OPERATION BEGINS.
5. THE LED IS LIT WHEN USER ATTN SIGNAL IS STUCK ASSERTED OR USER CABLE IS NOT CONNECTED TO MODULE CONNECTOR.

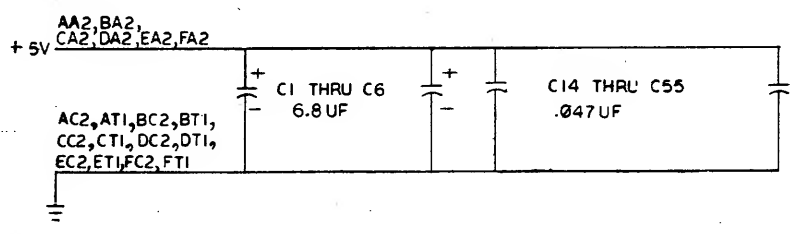
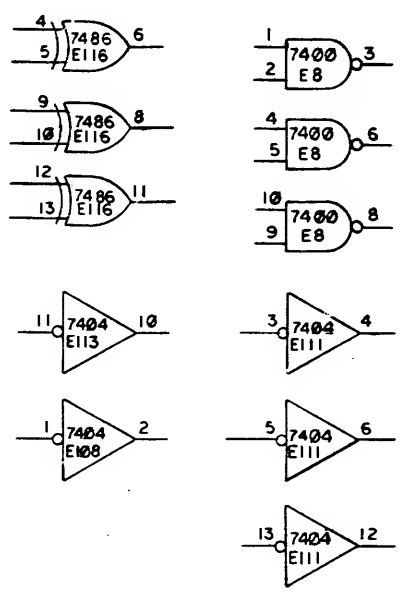


TABLE I		
POWER AND GND TABLE		
IC TYPE	GND	+5V
14 PIN IC'S	PIN 7	PIN 14
16 PIN IC'S	PIN 8	PIN 16
8640	PIN 1	PIN 8
74LS273	PIN 10	PIN 20

TABLE II							
MODES OF OPERATION	SWITCH	A00	MODE B-W	BUSY		CY INH	BURST BI *
		4	5	E I 1	N I 2	L I 3	
USER DEVICE			USER SELECT	ON	OFF	OFF	USER SELECT
MAINT, CABLE AND DR11-W TO DR11-W LINK		ON	USER SELECT	OFF	ON	OFF	USER SELECT
DR11-W TO DR11-B LINK		ON	USER SELECT	OFF	OFF	ON	USER SELECT

* UP POSITION FOR N-CYCLE BURST AND DOWN FOR TWO-CYCLE BURST.

SPARES



REVISIONS		
CHK	CHANGE NO.	REV.

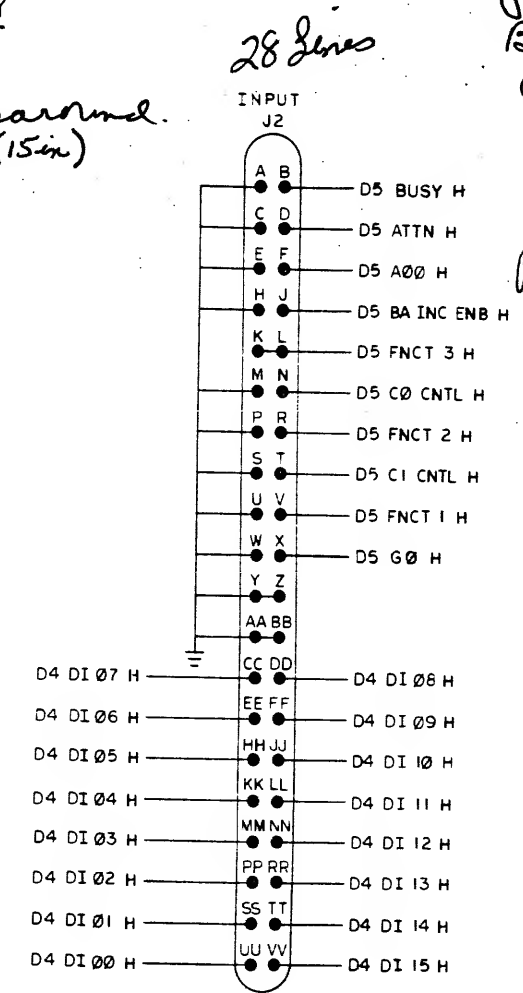
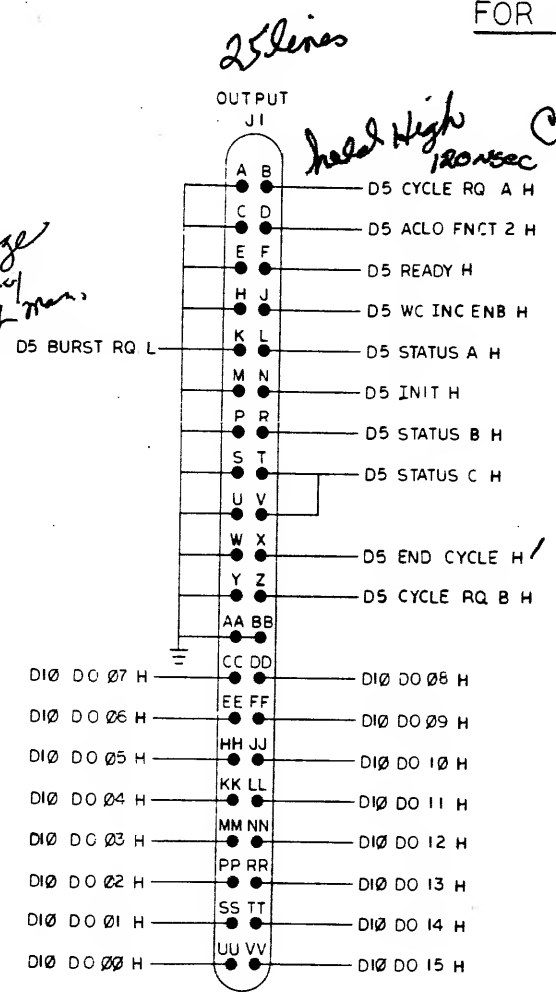
TITLE	G.P. DMA INTERACE (D12)	SIZE CODE	NUMBER	REV.
SCALE	1/1	SHEET	12 OF 14	DIST.

FOR REFERENCE ONLY

Normal hook up
approved Interface Cable
BCOR-xx
Cable Impedance 120- Ω
Max length .50 ft.
1524 cm

Cable wrapped
BCOSL test cable
is install between J1 output
J2 input so that data
Cable looped back to
Module
this checks out Connect
And Bus Transceivers.

Page 3-3
tech manual



Page 3-3
tech manual

Start a DMA J1
END cycle H, 60 H, Busy H,
Ready H go to user device

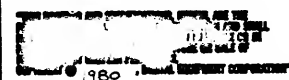
user device response
with

D1 (15:00) H. J2
also.
C0 CNTL H
C1 CNTL H
Cycle Rq A (or B)
WC INC ENB H
BA INC ENB H
BURST RQL

REVISIONS		
CHK	CHANGE NO.	REV.

(I/O CONNECTOR PIN ASSIGNMENT)

TITLE	G.P. DMA INTERFACE (D13)	SIZE CODE	NUMBER	REV.
SCALE	SHEET 13 OF 14	DIST.	DCS M8716-0-1	F

[illegible]

D2 Source	A7	D1	D2	D3	D4	D5	D6	D7	D8	D9
BA 02 L	B2-1	-	-	-	-	-	-	-	1	-
BA 01 L	B2-1	-	-	-	-	-	-	1	1	-
DTA L	C2-1	-	-	-	-	-	-	1	-	-
LOAD BA L	C2-1	1	4	-	-	-	-	-	-	-
LOAD WC L	C2-1	1	4	-	-	-	-	-	-	-
REG SEL H	B2-3	-	1	-	-	-	-	-	-	-
SEL 6 L	D3-1	-	-	-	-	-	-	1	-	-
SEL 4 L	C2-1	-	-	-	-	-	-	-	1	-
SCVN H	D2-1	1	1	-	-	-	-	-	-	-

[illegible]

DY Source	EA	DT	CD	WD	ST	CR	LT	ST	CD
MO CIN H	C3	-	-	2	-	-	-	-	1
WDE 15 (0) H	81	-	-	-	-	-	-	-	1
WDE 14 (0) H	81	-	-	1	-	-	-	-	1
WDE 13 (0) H	81	-	-	-	-	-	-	-	1
WDE 12 (0) H	81	-	-	-	-	-	-	-	1
WDE 11 (0) H	81	-	-	-	-	-	-	-	1
WDE 10 (0) H	81	-	-	-	-	-	-	-	1
WDE 09 (0) H	81	-	-	-	-	-	-	-	1
WDE 08 (0) H	81	-	-	-	-	-	-	-	1
WDE 07 (0) H	82	-	-	-	-	-	-	-	1
WDE 06 (0) H	82	-	-	-	-	-	-	-	1
WDE 05 (0) H	82	-	-	1	-	-	-	-	1
WDE 04 (0) H	82	-	-	-	-	-	-	-	1
WDE 03 (0) H	82	-	-	1	-	-	-	-	1
WDE 02 (0) H	82	-	-	-	-	-	-	-	1
WDE 01 (0) H	83	-	-	1	-	-	-	-	1

DS Source	1	2	3	4	5	6	7	8	9	10
MABO H	BI	-	-	-	1	-	-	-	1	-
MATTN H	CI	-	-	-	1	3	-	-	-	-
MBA INC ENB H	BI	-	-	-	1	-	-	-	1	-
MBAUST AQ H	CI	-	-	-	1	2	-	-	-	-
MCE CNTL H	CI	-	-	-	1	-	-	-	1	-
MCE CNTL H	CI	-	-	-	1	-	-	-	1	-
MCPLYE AQ H	BI	-	-	-	1	1	-	-	-	-
MISTATUS A H	BI	-	-	-	1	-	-	-	1	-
MISTATUS B H	BI	-	-	-	1	-	-	-	1	-
MISTATUS C H	BI	-	-	-	1	-	-	-	1	-
MISC INC ENB H	BI	-	-	-	1	-	-	-	1	-

D6 Source	F1	B1	B2	C1	C2	E1	E2
#0# NUS	G1	-	-	-	-	3	-
RDS TO BUS H	D1	-	-	-	-	-	-
RDS TO BUS L	C1	5	-	-	-	-	-
SUSY (0) H	A1	-	-	1	-	-	-
SUSY (1) H	A1	-	-	1	-	-	-
SUSY (1) L	A1	-	-	1	-	-	-
DATA FROM BUS H	B1	-	-	-	-	1	-
DATA FROM BUS L	B2	-	-	-	-	-	-
DATA TO BUS L	D1	-	-	-	-	-	-
END CYCLE H	B2	-	-	2	-	-	-
END CYCLE L	B2	-	-	2	-	3	-
MISN H	C2	-	-	-	-	1	-
MISN L	C2	-	-	-	-	2	-
XFER CMPT H	C2	-	-	1	-	1	-
XFER CMPT L	C2	-	-	-	-	3	-

D7 Source	I-1	O1	P1	D1	SF	C1	OF	DF	PF
ACLO (I) H	D6						1		
ATTN (I) H	O5							1	
50's	C3							1	
BURST DLT(I)H	A3						1		
CLORST H	B2								1
CYCLE (I) H	O1							2	
CYNH (I) H	B1						1		
ERROR H	O3							1	1
GO H	O4								1
LNA ATTN(I)H	C5							1	
MULTCY AQ(I)H	J6								1
MULTICY AQ(I)L	O6							2	
N-CYCLE BURST H	C1							4	
NEX (I) H	D3							2	
NPA AQ (O) H	C1							2	1
NPA AQ (I) H	C1						1		
NPA AQ (I) L	C1							2	1
PAR EAA (I) H	B1								1
PAR EAA (I) L	O7								1
READY (O) H	G4								2
READY (I) H	O4						1		2
READY (O) L	C4								2
READY B (I) L	O3						1		1
AST H	C2								2
SAC RL L	A6								2
SOFT CYCLE L	C2								1
START H	C1							2	
TLED H	A2								2
UACLO (L)	D2							1	
WC CLK H	B7						1		
WGO H	D2								1
WGO L	O3							2	
CYNH (O) H	B1								2
MCycle OLY H	G8							1	

DB Source	12	13	14	15	16	17	18	19	20	21	22
BR MASTER H	A3	-	-	-	-	-	-	-	5	-	-
BR MASTER L	B4	-	-	-	-	-	-	-	3	3	-
BR SACK H	B4	-	-	-	-	-	-	1	1	-	-
INTERUPT (D) H	B6	-	-	-	-	-	-	1	1	-	-
INTERUPT (D) H	B6	-	-	-	-	-	-	1	1	-	-
NPR MASTER L	D4	-	-	-	-	-	-	2	1	-	-
WPA L	A1	-	-	-	-	-	-	1	1	-	-
WPG H	A1	-	-	-	-	-	-	1	1	-	-

[illegible][illegible]

U/I SOURCE	CYCLE/BURST N
EDR END C/N H	END C/N H
ETR END C/N H	END C/N H
FUNCT 1 H	D6
FUNCT 2 H	D6
FUNCT 3 H	D6
INT END H	C6
MAGNET/MANUAL COIN	B6
STATUS A / B/C/D/H	B6
STATUS B/PARAMETER	B6
STATUS C/BURST/TIME	B6
LBA I/O H	C6
A/R K/H	C6
Ready H	D6

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	CS	M8716-0-1	F
SCALE		SHEET 14 OF 14	

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5013369-0-0	5013369-00	DR11W	1
2	2		1012784-00	.047 MFD 50V +80-20% CER	42
3	3		1005306-00	6.8MFD 35V 10% S.TANT	6
4	4		1209838-00	SOCKET 16PIN	1
5	5		1209941-02	HEADER 100 40POS RT ANGLE	2
6	6		1209941-03	HEADER RT ANGLE LEFT L	2
7	7		1209941-04	HEADER RT ANGLE RIGHT	2
8	8		1210711-02	/REPLACED BY 12-16988-02	1
9	9		9009000-00	EYELET, ROLLED FLANGE, .121 OD X	10
10	10		1211164-01	SW,DIP 1P 1A 5POS	1
11	11		1211164-04	SW,DIP 1P 1A 8POS	1
12	12		1211164-06	SW,DIP 1P 1A 10POS	1
13	13		1210209-00	SW,TOG,SPDT,.01A@6V,ON/ON,SUBMIN	1
14	14		1301322-00	180.0 .25 W 5.0 % CC	57
15	15		1300309-00	390.0 .25 W 5.0 % CC	57
16	16		1300005-01	R NETWORK 13-1K 5.0 % 14PIN	2
17	17		1611197-00	DELAY=50-500NS,10TAPS	2
18	18		1611327-00	DELAY= 125NS,0TAPS	2
19	19		1300391-00	1.50 K .25 W 5.0 % CC	2
20	20		1300432-00	3.0 K .25 W 5.0 % CC	2
21	21		1300295-00	330.0 .25 W 5.0 % CC	1
22	22		1301424-00	680.0 .25 W 5.0 % CC	1
23	23		1311522-00	200.0 .25 W 5.0 % CC	4
24	24		1312930-00	5.10 K .25 W 5.0 % CC	3
25	25		1302177-00	47.0 K .25 W 5.0 % CC	2
26	26		1309143-13	50.0 K .75 W10.0 % POT	1
27	27		1000027-00	820.0 MMF 100V 5%200PPM MICA	1
					CONT R5-R20,R37-R43,R62-R72, CONT R120-R122,R88-R103,R81,R82,R84, CONT R86 R21-R36,R44-R61,R83,R87, R104-R119,R123-R125,R128,R130 E119,E22 E100,E112 E110,E121 R1,R78 R2,R79 R3 R4 R73,R74,R76,R77 R85,R126,R127 R75,R129 R80 C7

REVISION HISTORY			BASIC PART NO: M8716			DRN: BOB PAULEY			DATE: 03-JAN-79			D I G I T A L					
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D: KENT GLEEZEN			DATE: 24-SEP-79			TITLE PARTS LIST					
---	INITIAL	D	SECTION VARIATION INDEX			DES.ENG: C. NAVEDONSKY			DATE: 18-OCT-79			DOCUMENT NUMBER					
DV	M8716-ML001	E	[A] 00			RESP.ENG.: C. NAVEDONSKY			DATE: 18-OCT-79			SIZE CODE NUMBER REV					
CN	M8716-ML002	F	[B]			MFG.ENG.: WALTER KNAPP			DATE: 18-OCT-79			K PL M8716-0-DBP F					
			[C]			ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:			FILE NAME: EDIT #					
			[D]			D-UA-M8716-0-0						Z0233F.PLS 11					
			[E]														
			[F]														
			[G]														
			[H]														
			[I]														
			[J]														
			[K]														
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			[M]														
			[N]														
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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
28	28	SEE NOTE	1000055-00	2200.0 MMF 250V 20% Y5S DISC	2		C8,C9
29	29		1004812-00	15 MFD 20V 10% S.TANT	1		C13
30	30		1000015-00	82.0 MMF 100V 5%200PPM MICA	2		C11,C12
31	31		1110864-00	LED 2MCD@10MA	2		D1,D2
32	32		1910651-00	DEC 74175 FF-D QUAD	4		E2,E4,E6,E10
33	33		1912847-00	LS157 MUX 1 OF 2 (QUAD)	3		E66,E67,E69
34	34		1910951-00	9602 ONE SHOT-DUAL	3		E78,E61,E83
35	36		9008085-00	TERM PCB 1POS SOLDER TURRET	1		TP1
36	37		1910547-00	74S153 MUX 1 OF 4 (DUAL)	8		E45,E46,E52,E64,E53,E54,E55,E56
37	38		1914438-00	DC 013 UNIBUS INTERRUPT-BIF	2		E106,E107
38	39		1905547-00	7474 FF-D DUAL,EDGE TRIGG	9		E127,E80,E90,E104,E87,E102,E92,
						CONT	E79,E125
39	40		1912820-00	LS51 A-O-I GATE 2-WIDE 2I	3		E115,E124,E68
40	41		1910018-00	DEC 74193 COUNTER,SYNCHR. UP/D	10		E24,E25,E26,E27,E31,E32,E33,E34,
						CONT	E28,E57
41	42		1912848-00	LS158 MUX 1 OF 2 (QUAD)	7		E9,E14,E17,E19,E47,E48,E49
42	43		1911676-00	74S139 DECODER-DUAL TWO-IMP	1		E72
43	44		1912821-00	LS54 A-O-I GATE,3-2-2-3IN	1		E44
44	45		1912863-00	LS273 FF-D OCTAL W/CLEAR	3		E16,E58,E21
45	46		1910011-00	DEC 7486 X-OR GATE-QUAD 2INPU	1		E116
46	47		1910548-00	74S157 MUX 1 OF 2 (QUAD)	2		E40,E23
47	48		1912395-00	DM 8136 COMPARATOR-6BIT UNIF	2		E117,E118
48	49		1912811-00	LS21 AND GATE-DUAL 4IN,PO	1		E75
49	50		1910541-00	74S40 NAND GATE-DUAL 4IN,B	1		E89
50	51		1912746-00	DEC 74S37 NAND GATE-QUAD 2IN	1		E122
51	52		1910537-00	74S11 AND GATE-TRIPLE 3INP	1		E91
52	53		1910536-00	74S10 NAND GATE-TRIPLE 3IN	1		E42
53	54		1912389-00	74S08 AND GATE-QUAD 2IN,PO	1		E65
54	55		1910155-00	DEC 7408 AND GATE,POS.QUAD 2I	2		E81,E77
55	56		1909686-00	7404 INVERTER GATE-HEX 1I	8		E59,E76,E70,E111,E108,E113,E109,
						CONT	E114
56	57		1905575-00	7400 NAND GATE-QUAD 2IN	5		E60,E43,E93,E98,E8
57	58		1910878-00	7427 NOR GATE-TRIPLE 3IN	2		E97,E99
58	59		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	5		E88,E123,E101,E103,E71
59	60		1911469-00	DEC 8640 RECEIVER,BUS,QUAD,U	7		E12,E18,E13,E20,E35,E36,E39
60	61		1911579-00	8641 TRANSCEIVER,BUS,QUA	15		E3,E5,E7,E11,E30,E29,E41,E51,
						CONT	E96,E63,E95,E73,E84,E85,E74
61	62		1911521-00	7432 OR GATE-QUAD 2IN, PO	2		E94,E82
62	63		1909705-00	DEC 8881 NAND GATE-QUAD 2IN O	3		E37,E38,E50
63	64		1910539-00	74S20 NAND GATE-DUAL 4INPU	1		E126
64	65		1001610-00	.01 MFD 50V +80-20% 25U CER	1		C10
65	66		1300365-00	1.0 K .25 W 5.0 % CC	1		R131
66	67		5400778-00	PLUG PRIORITY	1		E62
67	68		1300479-00	10.0 K .25 W 5.0 % CC	1		R132
68	69		1000020-00	180.0 MMF 100V 5%200PPM MICA	1		C56
69	70		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	1		E86
70	71		9105740-55	WIRE(WRAP)30AWG UL1423	A/R		

! D ! I ! G ! I ! T ! A ! L !	! TITLE	! SECTION A OF A	! SIZE ! CODE !	! DOCUMENT NUMBER	! REV !
! ! ! ! ! ! ! !	DR11-W	! ! ! ! ! ! ! !	! K ! PL !	M8716-0-DRP	! F !

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
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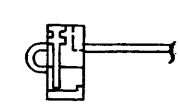
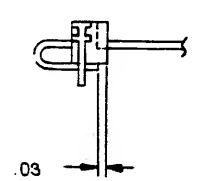
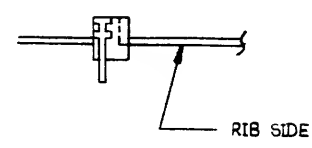
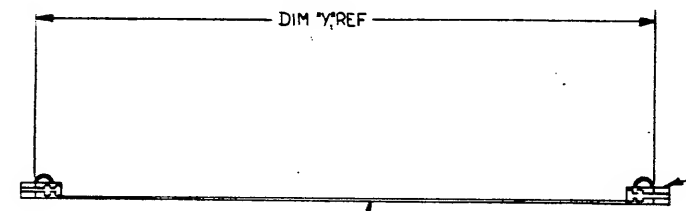
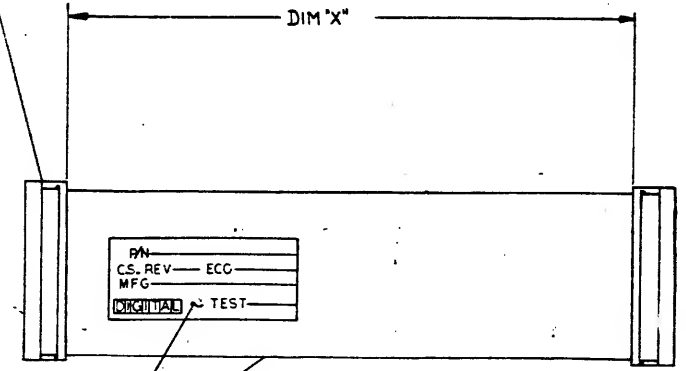
71 NOTE: C8 IS NOT FOR VOLUME PRODUCTION IT IS USED FOR TIME OUT ON 11/780

D	I	G	I	T	A	L	TITLE		SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							DR11-W			K	PL	MB716-0-DBP	F

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WIRE TABLE

FROM	TO
PI-A	P2-VV
PI-B	P2-UU
PI-C	P2-TT
PI-D	P2-SS
PI-E	P2-RR
PI-F	P2-PP
PI-H	P2-NN
PI-J	P2-MM
PI-K	P2-LL
PI-L	P2-KK
PI-M	P2-JJ
PI-N	P2-HH
PI-P	P2-FF
PI-R	P2-EE
PI-S	P2-DD
PI-T	P2-CC
PI-U	P2-BB
PI-V	P2-AA
PI-W	P2-ZZ
PI-X	P2-Y
PI-Y	P2-X
PI-Z	P2-W
PI-AA	P2-V
PI-BB	P2-U
PI-CC	P2-T
PI-DD	P2-S
PI-EE	P2-R
PI-FF	P2-Q
PI-HH	P2-N
PI-JJ	P2-M
PI-KK	P2-L
PI-LL	P2-K
PI-MM	P2-J
PI-NN	P2-I
PI-PP	P2-H
PI-RR	P2-G
PI-SS	P2-F
PI-TT	P2-E
PI-UU	P2-D
PI-VV	P2-C
PI-WW	P2-B
PI-XX	P2-A



LEGEND		
NUMBER	DIM 'X' VARIATION	DIM 'Y' (PRECUT)
BC05L-0C	3IN ± 0.5IN	4.2 IN.
BC05L-1C	15IN ± 0.5IN	16.2 IN.
BC05L-1J	20IN ± 1.0IN	21.3 IN.
BC05L-2	2FT ± 0.5IN	2.4 FT.
BC05L-3	3FT ± 0.5IN	3FT, 1.2IN.
BC05L-4	4FT ± 0.5IN	4FT, 1.2IN.
BC05L-5	5FT ± 0.5IN	5FT, 1.2IN.
BC05L-6	6FT ± 0.5IN	6FT, 1.2IN.
BC05L-7	7FT ± 1.0IN	7FT, 1.2IN.
BC05L-8	8FT ± 1.0IN	8FT, 1.2IN.
BC05L-9	9FT ± 1.0IN	9FT, 1.2IN.
BC05L-10	10FT ± 2.0IN	10.5 FT.
BC05L-11	11FT ± 2.0IN	11FT, 1.2IN.
BC05L-12	12FT ± 2.0IN	12FT, 1.2IN.
BC05L-13	13FT ± 2.0IN	13FT, 1.2IN.
BC05L-14	14FT ± 2.0IN	14FT, 1.2IN.
BC05L-15	15FT ± 0.5IN	15FT, 1.2IN.
BC05L-16	16FT ± 1.0IN	16FT, 1.2IN.
BC05L-0E	5IN ± 0.5IN	6.2 IN.

NOTES

1 ASSY OF ITEM #1 (CONNECTOR) TO ITEM #2 (CABLE) IS AS FOLLOWS:

A CABLE TO BE CUT SQUARE AT BOTH ENDS.

STEP 1: INSERT CABLE THRU SLOT IN TOP HALF OF CONNECTOR. NOTE POSITION OF CABLE RELIEF SHOWN AS DOTTED LINE.

PIPS ON CABLE MUST BE LOCATED DOWN.

STEP 2: BEND CABLE DOWN AND UNDER AND SECURE AGAINST ADHESIVE. NOTE DIMENSION SHOWN.

STEP 3: POSITION LOWER HALF OF CONNECTOR ON LOCKING PINS AND PRESS TWO HALVES TOGETHER. PULL CABLE THRU SLOT, THEN BEND CABLE TO POSITION CONNECTOR AS SHOWN IN FINAL ASSY.

2 PHYSICAL APPEARANCE OF CONNECTOR MAY BE DIFFERENT, DEPENDING ON VENDOR PART USED. FOR DETAILED DESCRIPTION, REFER TO SPEC. *A-PS-1211206-0-0, LATEST REVISION.

1	LABEL, IDENTIFICATION	9009255	4
2	LABEL THIS SIDE UP	3611507	3
2	CONN. 40 PIN	121206	2
A/R	CABLE, FLAT, 40 COND.	9107747-01	1

FIRST USED ON OPTION/MODEL		TU60	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		PARTS LIST	
DECIMALS	ANGLES	DATE	11-16-72
XXX - .005	± 0° 30'	CHKD	DATE
.XX - .02		ENG	11-21-72
X - .1		PROJ ENG	DATE
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD.	DATE
MATERIAL		DATE	11-21-72
FINISH		NEXT HIGHER ASSY.	
		D-UA-TU60-0-0	
		SCALE	1/1
		SHEET	1 OF 1
		DIST	
		SIZE CODE	D UA
		NUMBER	BC05L-0-0
		REV.	M

REV	CHANGE NO	REV	CHANGE NO
A	BC05L-00001	A	BC05L-00001
B	BC05L-00002	B	BC05L-00002
C	BC05L-00003	C	BC05L-00003
D	BC05L-00004	D	BC05L-00004
E	BC05L-00005	E	BC05L-00005
F	BC05L-00006	F	BC05L-00006
G	BC05L-00007	G	BC05L-00007
H	BC05L-00008	H	BC05L-00008
I	BC05L-00009	I	BC05L-00009
J	BC05L-00010	J	BC05L-00010
K	BC05L-00011	K	BC05L-00011
L	BC05L-00012	L	BC05L-00012
M	BC05L-00013	M	BC05L-00013
N	BC05L-00014	N	BC05L-00014
O	BC05L-00015	O	BC05L-00015
P	BC05L-00016	P	BC05L-00016
Q	BC05L-00017	Q	BC05L-00017
R	BC05L-00018	R	BC05L-00018
S	BC05L-00019	S	BC05L-00019
T	BC05L-00020	T	BC05L-00020
U	BC05L-00021	U	BC05L-00021
V	BC05L-00022	V	BC05L-00022
W	BC05L-00023	W	BC05L-00023
X	BC05L-00024	X	BC05L-00024
Y	BC05L-00025	Y	BC05L-00025
Z	BC05L-00026	Z	BC05L-00026
AA	BC05L-00027	AA	BC05L-00027
AB	BC05L-00028	AB	BC05L-00028
AC	BC05L-00029	AC	BC05L-00029
AD	BC05L-00030	AD	BC05L-00030
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AF	BC05L-00032	AF	BC05L-00032
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AI	BC05L-00035	AI	BC05L-00035
AJ	BC05L-00036	AJ	BC05L-00036
AK	BC05L-00037	AK	BC05L-00037
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AM	BC05L-00039	AM	BC05L-00039
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AO	BC05L-00041	AO	BC05L-00041
AP	BC05L-00042	AP	BC05L-00042
AQ	BC05L-00043	AQ	BC05L-00043
AR	BC05L-00044	AR	BC05L-00044
AS	BC05L-00045	AS	BC05L-00045
AT	BC05L-00046	AT	BC05L-00046
AU	BC05L-00047	AU	BC05L-00047
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BK	BC05L-00063	BK	BC05L-00063
BL	BC05L-00064	BL	BC05L-00064
BM	BC05L-00065	BM	BC05L-00065
BN	BC05L-00066	BN	BC05L-00066
BO	BC05L-00067	BO	BC05L-00067
BP	BC05L-00068	BP	BC05L-00068
BQ	BC05L-00069	BQ	BC05L-00069
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BS	BC05L-00071	BS	BC05L-00071
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BV	BC05L-00074	BV	BC05L-00074
BW	BC05L-00075	BW	BC05L-00075
BX	BC05L-00076	BX	BC05L-00076
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E	BC05L-00005	E	BC05L-00005
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G	BC05L-00007	G	BC05L-00007
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BO	BC05L-00067	BO	BC05L-00067
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BK	BC05L-00063	BK	BC05L-00063
BL	BC05L-00064	BL	BC05L-00064
BM	BC05L-00065	BM	BC05L-00065
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BO	BC05L-00067	BO	BC05L-00067
BP	BC05L-00068	BP	BC05L-00068
BQ	BC05L-00069	BQ	BC05L-00069
BR	BC05L-00070	BR	BC05L-00070
BS	BC05L-00071	BS	BC05L-00071
BT	BC05L-00072	BT	BC05L-00072
BU	BC05L-00073	BU	BC05L-00073
BV	BC05L-00074	BV	BC05L-00074
BW	BC05L-00075	BW	BC05L-00075
BX	BC05L-00076	BX	BC05L-00076
D	BC05L-00010	D	BC05L-00010
E	BC05L-00005	E	BC05L-00005
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AK	BC05L-00037	AK	BC05L-00037
AL	BC05L-00038	AL	BC05L-00038
AM	BC05L-00039	AM	BC05L-00039
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AO	BC05L-00041	AO	BC05L-00041
AP	BC05L-00042	AP	BC05L-00042
AQ	BC05L-00043	AQ	BC05L-00043
AR	BC05L-00044	AR	BC05L-00044
AS	BC05L-00045	AS	BC05L-00045
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AW	BC05L-00049	AW	BC05L-00049
AX	BC05L-00050	AX	BC05L-00050
AY	BC05L-00051	AY	BC05L-00051
AZ	BC05L-00052	AZ	BC05L-00052
BA	BC05L-00053	BA	BC05L-00053

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY A. COLON
DATE 4 OCT 74

CHECKED *F. B. Kyles*
DATE *8 Oct 79*

SECTION	
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ENG *11-24-79*
DATE *10-10-79*

PROD	W. Elbray
DATE	18 OCT 1979

ISSUED SECT.	1
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[illegible][illegible]

TITLE	DR11-W SHIPPING LIST
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ASSY NO.	D-UA-DR11-W-Ø
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SIZE	CODE
A	PL

NUMBER
DR11-W

REV
A

ECO NO.
DR11-W
ML001

SHEET 1 OF 1

DIST